

AMENDMENTS TO THE CLAIMS

1 1. (Original) Apparatus for performance-monitoring of a synchronous
2 optical network standard signal comprising:

3 means supplied with the standard optical signal for converting the
4 standard optical signal to an electrical signal;

5 means for separating from said electrical signal the framing signal portion
6 thereof and leaving in its time slot the noise that was on the framing signal; and

7 means for separating selectively for inspection such noise from the data
8 power for use as a measure of the quality of the standard optical signal.

1 2. (Original) The apparatus of claim 1 in which the means for separating
2 the noise from the data includes a squaring circuit for increasing the
3 discrimination between the relatively low noise power and the relatively high data
4 power, and a low pass filter circuit for passing selectively the noise power to a
5 display for viewing.

1 3. (Original) The apparatus of claim 2 in which the squaring circuit is a
2 diode.

1 4. (Original) The apparatus of claim 1 in which the means for separating
2 the framing signal from its noise is a notch filter.

1 5. (Original) The apparatus of claim 4 in which the framing signal is
2 separated from the noise in its time slot by a low pass filter including two 50 ohm
3 lengths of transmission line and two one-quarter wavelength stubs of such a
4 transmission line, of which one is shorter and the other open-ended.

1 6. (Original) The apparatus of claim 2 in which the means for separating
2 the framing signal power from the noise power in its time slot is a notch filter.

1 7. (Amended) ~~The~~ A process for performance monitoring of a SONET
2 standard signal comprising the steps of converting the signal into an electrical

3 signal, separating from said electrical signal the framing signal in a manner to
4 leave the noise in the framing signal time slot and the data power essentially
5 undisturbed, and displaying the noise power in the framing time slot of the
6 separated signal.

1 8. (Currently Amended) A process for performance-monitoring of a
2 SONET standard signal comprising the steps of converting the signal into an
3 electrical signal, separating from said electrical signal the framing signal in a
4 manner to leave the noise in the framing signal time slot and the data power
5 essentially undisturbed, and displaying the noise power in the framing time slot of
6 the separated signal;

7 ~~The process of claim 5 in which~~ wherein before its display the separated
8 signal is treated to increase the difference in the level of the noise power in the
9 framing slot and the data power of the signal.

1 9. (New) Apparatus for monitoring a SONET signal comprising:
2 means for separating the signal power in a framing portion of the SONET
3 signal from noise power in the framing portion;
4 means for comparing the noise power in the framing portion to the signal
5 power in a data portion of the SONET signal to determine a measure of the
6 quality of the SONET signal.

1 10. (New) Method for monitoring a SONET signal comprising:
2 separating the signal power in a framing portion of the SONET signal from
3 noise power in the framing portion;
4 comparing the noise power in the framing portion to the signal power in a
5 data portion of the SONET signal to determine a measure of the quality of the
6 SONET signal.

1 11. (New) The method of claim 10 wherein separating the signal power in
2 the framing portion is performed using a filter device adapted to filter out the
3 spectral content of the framing signal of the SONET signal.